**Yasmine N. Majchrzak**

PhD candidate

Biological Sciences

University of Alberta

11455 Saskatchewan Drive, Edmonton, Alberta, T6G 2E9

majchrza@ualberta.ca

**Education**

PhD (2015-present)

Biological sciences, University of Alberta

Supervisors: Dr. Stan Boutin and Dr. Rudy Boonstra

M.Sc. (2011 to 2014)

Environmental and life sciences, Trent University

Supervisor: Dr. Gary Burness

Honours. B.Sc. (2007-2011)

Biology, Trent University

Honours thesis supervisor: Dr. Paul Frost

**Languages Spoken and Written**

English, French, Polish

**Publications**

***Submitted or In Review***

10) Studd EK, Boudreau M, **Majchrzak YN**, Menzies AK, Peers MJL, Seguin J, Lavergne S, Boonstra R, Murray D, Boutin S, Humphries MM. *In Review*. Use of acceleration and acoustics to classify behaviour and evaluate responses to moonlight in free-ranging snowshoe hares. Frontiers in Ecology and Evolution.

9) Murray DL\*, Peers MJL\*, Bastille-Rousseau G, Thornton DH, **Majchrzak YN**. *In Review*. Evidence-based recovery is a necessary next step for red wolf conservation. Conservation Letters. \* Senior authorship jointly shared

8) Ferreira C, Hossie TJ, Jenkins D, Wehtje M, Austin C, Boudreau M, Chan K, Clement A, Hrynyk M, Longhi J, MacFarlane S, **Majchrzak YN**, Otis JA, Peers MJL, Rae J, Seguin J, Walker S, Watt C, Munday A, Murray DL. *In Review*. The Recovery illusion: Protracted planning undermines effective rescue of imperiled species.

***Published***

7) Jung TS, Konkolics SM, Kukka PM, **Majchrzak YN**, Menzies AK, Oakley MP, Peers MJL, Studd EK. *In Press*. Short-term effect of helicopter-based capture on movements of a social

Ungulate. The Journal of Wildlife Management.\*All authors contributed equally

6) Peers MJL, **Majchrzak YN**, Konkolics SM, Boonstra R, Boutin S. 2018. Scavenging by

snowshoe hares (*Lepus americanus*) in the Yukon, Canada. Northwestern Naturalist 99: 232-235.

5) Peers MJL, **Majchrzak YN**, Neilson E, Lamb CT, Hämäläinen A, Haines JA, Garland L, Doran-Myers D, Broadley K, Boutin S. 2018. Quantifying fear effects on prey demography in nature. Ecology 99(8): 1716-1723. doi: 10.1002/ecy.2381

4) Murray DL\*, Peers MJL\*, **Majchrzak YN**, Wehtje M, Ferreira C, Pickles RSA, Row JR, Thornton DH. 2017. Continental divide: Predicting climate-mediated fragmentation and biodiversity loss in the boreal forest. PLoS ONE 12: e0176706. \* Senior authorship jointly shared

3) Peers MJL, Thornton DH, **Majchrzak YN**, Bastille-Rousseau G, Murray DL. 2016. De-extinction potential under climate change: extensive mismatch between historic and future habitat suitability for three candidate birds. Biological Conservation 197: 164-170

2) Murray DL\*, **Majchrzak YN\***, Peers MJL, Wehtje M, Ferreira C, Pickles RSA, Row JR, Thornton DH. 2015. Potential pitfalls of private initiatives in conservation planning: a case study from Canada’s boreal forest. Biological Conservation 192: 174-180. \*Senior authorship jointly shared

1) **Majchrzak YN**, Mastromonaco GF, Korver W, Burness G. 2015. Use of salivary cortisol to evaluate the influence of rides in dromedary camels (Camelus dromedarius). General and Comparative Endocrinology 211: 123-130.

***Other Scientific Publications***

1) **Majchrzak YN**. 2016. InfoNorth Essay: The role of food in the snowshoe hare - Canada lynx cycle. Arctic. 69: 450-453. DOI: 10.14430/arctic4616

2) **Majchrzak YN**. 2016. Essay for Research Night Owls. Science. 25 November. Vol. 354, Issue 6315, pp. 964-966. DOI: 10.1126/science.354.6315.964

–headline essay

3) **Majchrzak YN**. 2014. Essay for NextGen Voices. Science. 4 April. Vol 344, no. 6179, pp 34-37 http://www.sciencemag.org/content/344/6179/34/suppl/DC1

***Commissioned Articles:***

1) **Majchrzak YN**. 2018. Uncovering the mystery of the snowshoe hare cycle. Alberta Trapper Magazine. Published Sept 14 2018. Issue 3, pg 18-21.

**Awards/Scholarships**

2018/20 – The W. Garfield Weston Award in Northern Research – Doctoral ($50,000)

2018 – Northern Scientific Training Program ($2,915)

2018 – University of Alberta Northern Research Award ($1,712)

2016 – President’s Doctoral Prize of Distinction ($10,000)

2016 - Northern Scientific Training Program ($4,000)

2016 - University of Alberta Northern Research Award ($2,952)

2016/2018 – NSERC Alexander Graham Bell Canada Graduate Scholarship ($70,000)

2016 - Lorraine Allison Memorial Scholarship ($3,000)

2015/16 – Queen Elizabeth II Scholarship ($15,000)

2011/13 – NSERC IPS Scholarship ($42,000)

2011/13 – Canadian Association of Zoos and Aquariums (CAZA) Research Grant ($2,000)

2010 – Academic All-Canadian Award (Varsity Swimming)

**Presentations**

**\*co-authored presentations not listed here**

1) **Majchrzak YN**, Peers MJL, Menzies AK, Studd EK, Boonstra R, Boutin S. 2018. How food influences snowshoe hare population dynamics. Oral presentation at the Association of Canadian Universities for Northern Research Student Conference, Edmonton, AB.

2) **Majchrzak YN**, Peers MJL, Boonstra R, Krebs CJ, Menzies AK, Studd EK, Humphries M, Murray D, Boutin S. 2017. The role of food in the snowshoe hare cycle. Oral presentation at the Canadian Society for Ecology and Evolution Conference, Guelph, ON.

3) **Majchrzak YN**, Peers MJL, Boonstra R, Krebs CJ, Menzies AK, Studd EK, Humphries M, Murray D, Boutin S. 2017. Re-examining the role of food in the snowshoe hare cycle. Oral presentation at the International Mammological Congress, Perth, WA, Australia.

4) **Majchrzak YN**. 2017. How food influences the snowshoe hare cycle. Lecture for the Wednesday Night Seminar Series, Department of Biological Sciences, University of Alberta, Edmonton, AB.

5) **Majchrzak YN**, Mastromonaco G, Korver W, Burness G. 2014. Providing rides is not stressful for dromedary camels. Poster presentation at Genomes to Biomes - Canadian Society for Ecology and Evolution Conference, Montreal, QC.

6) **Majchrzak YN**, Mastromonaco G, Korver W, Burness G. 2014. Influence of rides on the stress physiology of dromedary camels (Camelus dromedarius). Poster presentation at the Symons Seminar Series Gala, Trent University, Peterborough, ON.

7) **Majchrzak YN**, Burness G, Korver W, Mastromonaco G. 2013. Validation of salivary cortisol for measuring adrenal function in dromedary camels. Poster presentation at the International Society of Wildlife Endocrinology, Lincoln Park Zoo, Chicago, IL, USA.

8) **Majchrzak YN**, Mastromonaco G, Korver W, Burness G. 2013. The effects of transportation on dromedary camels (Camelus dromedarius). Oral presentation at the Three Minute Thesis competition, Trent University, Peterborough, ON.

9) **Majchrzak YN**, Wagner N, Frost P. 2011. The effects of Pasteuria ramosa on the physiological processes and biochemical composition of Daphnia magna. Oral presentation for Ontario Biology Day, Wilfred Laurier University, Peterborough, ON.

**Teaching Experience**

***Mentorship Experience***

2019 – Laura Molina Gonzalez, Field assistant, University of Alberta

2018 – Emina Ida, Field assistant, University of Alberta

2018 – Meghan Thompson, Field assistant, University of Alberta

2018 – Rabia Mahmood, Lab assistant, University of Toronto at Scarborough

2018 – Tasnuva Mahiuddin, Lab assistant, University of Toronto at Scarborough

2018 – Sean Konkolics, Field assistant, University of Alberta

2018 – Shotaro Shiratsuru, Field assistant, University of Saskatchewan

2018 – Noah Israel, Field assistant, McGill University

2017 – Heather Sterling, Field assistant, University of Michigan

2017 – Rachael Ryan, Field assistant, McGill University

2017 – Edouard Bélanger, Field assistant, University of Alberta

2017 – Nolan Benoit, Field assistant, Sault College

2017 – Justine Benjamin, Field assistant, Yukon College

2017 – Kate Bezooyen, Field assistant, University of Alberta

2017 – Lindsay Potts, Field assistant, University of Alberta

2016 – Laura Brazier, Field assistant, University of Alberta

2016 – Jess Steketee, Field assistant, University of Alberta

2016 – Camille Roberge, Field assistant, University of Alberta

2016 – Adam Sprott, Field assistant, University of Alberta

2015 – Erik Vimercati, Field assistant, Volunteer from Switzerland

2015 – Eliot Linton, Field assistant and Fullbright Scholar, McGill University

2015 – Samantha Stead, Field assistant, University of Alberta

2015 – Marina Morandini, Field assistant, University of Alberta

2015 – Laurence Carter, Field assistant/co-op intern, Sherbrooke University

***Teaching Assistantships***

2019 – Comparative Environmental Physiology (3rd year level)

2014 – Human Physiology (1st year level)

2013 – Human Anatomy (1st year level)

2013 – Human Physiology – online summer course (1st year level)

2013 – Human Anatomy – online summer course (1st year level)

2013 – Microbiology (3rd year level)

2012 – Animal Physiology (3rd year level)

2012 – Human Physiology (1st year level)

2011 – Human Anatomy (1st year level)

**Work Experience**

Contract researcher 2017-2019

Tom Jung, Yukon Environment

Whitehorse, YT

Integrative wildlife conservation lab research assistant 2014 – 2015

Dr. Dennis Murray, Trent University

Peterborough, ON

Zookeeper/animal trainer/outreach show host 2010 – 2012

Bowmanville Zoological Park

Bowmanville, ON

Invertebrate growth lab technician and research assistant 2010

Dr. Paul Frost, Trent University

Peterborough, ON

**Service and Volunteer Experience**

2018/19 – Student representative serving on the UAlberta North Awards Committee

2015/17 – Creator and Researcher for the Yukon Lynx Carcass Collection Program, YT

2015/17 – Regularly attend Alsek Renewable Resources Council meetings to provide scientific

input Haines Junction, YT

2015/19 – Organize multiple field trips for classes from St. Elias School to come to our field

camp, Haines Junction, YT

2015 – Presenter at community lecture series on science, Haines Junction, YT

2015 – Volunteer field assistant for Kluane Ecological Monitoring Program, Kluane area, YT

2015 – Role model for Networking Fair with Women in Scholarship, Engineering, Science and

Technology (WISEST), University of Alberta, AB

2013 – Volunteer field assistant for flying squirrel project, Trent University, ON

2012/13 – Guest instructor, Kawartha Pine Ridge District School Board, Peterborough, ON

2012/13 – Abstract Selection Committee, Symons Seminar Series, Trent University, ON

2011/13 – Volunteer vet assistant, Sherbrooke Heights Animal Hospital, Peterborough, ON

2011/12 – Volunteer, Member of the Animal Science Club, Trent University, ON

2011/12 – Volunteer, Kawartha Turtle Trauma Center, Peterborough, ON

2008/10 – Swimming coach, Trent Swim Team, Peterborough, ON

***Reviewer***

Trends in Ecology and Evolution

Ecological Indicators

Journal of Ecology and the Natural Environment

Endangered Species Research

***Media***

2018 – Snowshoe hare researcher interviewed and featured on PBS Nature, PBS, USA

2017 – Snowshoe hare consultant for the filming of Wild Cats and Seven Wonders,

BBC, UK

2016 – Snowshoe hare research featured on CBC’s The Nature of Things, Canada

2016 – Snowshoe hare consultant assisting with the filming of Wild Canadian Year, CBC,

Canada

2015 – Snowshoe hare research featured on Semaine Verte for Radio Canada, CBC, Canada

2015 – Research featured in Faculty of Science recruitment brochure, University of Alberta, AB

2013 – Research featured in the Toronto Star, Ontario

2013 – Camel researcher, News Watch at 5, CKWS, Ontario

2013 – Camel researcher, Chex Daily News, Chex TV, Ontario

2012 – Guest animal handler on Steven and Chris, CBC, Canada (<http://www.youtube.com/watch?v=hw_ZT_u216g>)

2011 – Guest animal expert on Daytime, Rogers TV, Canada (<http://www.rogerstv.com/page.aspx?lid=237&rid=2&sid=2325&gid=89369>)

***Memberships***

2018/19 – Member of the Academic Women’s Association at University of Alberta

2019 – Member of the Alberta Chapter of The Wildlife Society